SW2 DVI A NEW

Two Input DVI with Stereo Audio Switcher

UNIQUE FEATURES

- Two Input DVI with Stereo Audio Switcher

SW4 DVI A NEW

Four Input DVI with Stereo Audio Switcher

UNIQUE FEATURES

- Four Input DVI with Stereo Audio Switcher

COMMON FEATURES

- Single link DVI-D and stereo audio switching
- Inputs: 2 or 4 female DVI-I connectors
- Output: 1 female DVI-I connector
- Supports resolutions up to 1920x1200, including HDTV 1080p/60
- EDID Minder
- Independent input equalization
- Source signal presence indication
- Active Audio Buffering
- Autoswitching capabilities
- RS-232 control
- IR remote control with optional IR 102 handheld IR remote
- Rack-mountable 1U, half rack width metal enclosure
- External universal power supply included, part # 70-055-01

DESCRIPTION

The **SW2 DVI A** and **SW4 DVI A** are two and four input, one output, single link DVI - Digital Visual Interface switchers that allow multiple DVI input signals to be switched to one compatible display. These switchers are compatible with PC resolutions up to 1920x1200, and also support HDTV 1080p/60. To enhance and simplify integration, both models feature the EDID Minder that automatically manages the EDID information between the digital display device connected to the output and all the input sources. By maintaining continuous EDID communication with all sources, EDID Minder ensures all DVI sources power up properly and maintain their video outputs whether or not they are actively connected to the digital display device through the switcher's output. Front panel LED signal presence indicators provides a quick means of active signal verification.

Independent input equalization reduces the need for additional signal conditioning equipment by compensating for signal loss when using long input cable assemblies. Front panel switches allow user-selectable EQ levels. The SW DVI A Series switchers are user-configurable for manual or autoswitching modes. Autoswitching allows any input of the switcher to be selected automatically when the switcher detects a signal.

Convenient control options allow easy integration into a variety of environments, and include front panel control, IR, RS-232, and autoswitching. To further simplify integration, both SW DVI A switchers are housed in compact, 1U, half rack width enclosures that are easily mounted into optional Extron 1U Universal Rack Shelf Kits.

MODEL	VERSION DESCRIPTION	PART #
SW2 DVI A	Two Input DVI w/ Stereo Audio Switcher	60-840-01
SW4 DVI A	Four Input DVI w/ Stereo Audio Switcher	60-840-02

Continued →

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Extron®

SW DVI A Series

SPECIFICATIONS

VIDEO

Video amplifier bandwidth	1.65 Gbps
Pixel clock frequency	24 MHz to 165 MHz
Impedance	100 ohms
Resolution	Up to 1080p (HDTV) or 1920x1200 (the highest resolution of the single link DVI standard) @ 60 Hz
Signal types and standards	RGB digital video (DVI and HDMI standards) All single link DVI and HDMI signal formats are supported, including 640x480 through 1920x1200 computer video and 480p, 720p, 1080i, and 1080p HDTV @ 60 Hz

VIDEO INPUT

Number/signal type	2 or 4 single link DVI-D digital component video, 1920x1200 @ 60 Hz maximum resolution
Connectors	2 or 4 female DVI-I
Nominal levels	
Digital video	1.2 Vp-p
DDC (Display Data Channel)	TTL: 5.0 Vp-p
Equalization	+6 dB or +12 dB, switch selectable for each input

VIDEO OUTPUT

Number/signal type	1 DVI-D digital component video, 1920x1200 @ 60 Hz maximum resolution
Connectors	1 female DVI-I

AUDIO

Gain	Unbalanced output: 0 dB; balanced output: +6 dB
Frequency response	20 Hz to 20 kHz, ±0.05 dB
THD + Noise	0.01% @ 1 kHz at nominal level
S/N	>90 dB at maximum output (unweighted)
Crosstalk	<-45 dB @ 20 kHz, -72 dB @ 1 kHz or below
Stereo channel separation	>80 dB @ 20 Hz to 20 kHz

AUDIO INPUT

Number/signal type	2 or 4 stereo, unbalanced
Connectors	(2 or 4) 3.5 mm mini audio jacks (tip = L, ring = R, sleeve = GND)
Impedance	>10k ohms unbalanced, DC coupled
Nominal level	-10 dBV (316 mVrms)
Maximum level	+8.2 dBV, unbalanced at 1% THD+N

NOTE: 0 dBu = 0.775 Vrms, 0 dBV = 1 Vrms, 0 dBV ≈ 2 dBu

AUDIO OUTPUT

Number/signal type	1 stereo, balanced/unbalanced
Connectors	(1) 3.5 mm captive screw connector, 5 pole
Impedance	50 ohms unbalanced, 100 ohms balanced
Maximum level (Hi-Z)	>+16.5 dBu, balanced; >8.2 dBV, unbalanced at 1% THD+N
Maximum level (600 ohm)	>+10.4 dBm, balanced; >7.1 dBm, unbalanced at 1% THD+N

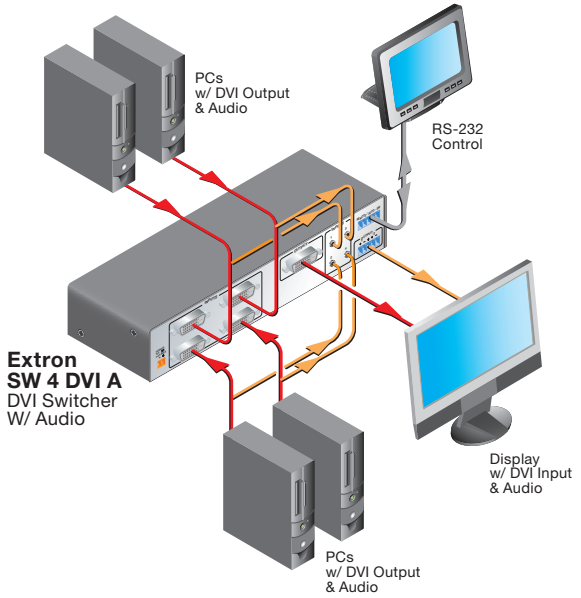
CONTROL/REMOTE — SWITCHER

Serial control port	(1) RS-232, 3.5 mm captive screw connector, 5 pole (shared with autoswitching control)
Baud rate and protocol	9600 baud, 8 data bits, 1 stop bit, no parity
Serial control pin configurations	1 = TX, 2 = RX, 3 = GND
Contact closure	(1) 3.5 mm captive screw connector, 5 pole (shared with RS-232)
Contact closure pin configurations	4 and 5 shorted together enable autoswitch mode.
IR controller module	IR 102 Remote Control, optional (#70-224-10) 30° maximum, 40 degrees off axis
Program control	Extron's Simple Instruction Set (SIS™)

GENERAL

External power supply	100 VAC to 240 VAC, 50/60 Hz, external; to 12 VDC, 1 A, regulated
Power input requirements	12 VDC, 0.7 A
Temperature/humidity	Storage: -40 to +158 °F (-40 to +70 °C) / 10% to 90%, noncondensing Operating: +32 to +122 °F (0 to +50 °C) / 10% to 90%, noncondensing
Cooling	Convection, unvented
Rack mount	Yes, with optional 1U, 9.5" deep rack shelf, part #60-190-01 (RSU 129) or 60-604-01 (RSB 129); 1U, 6" deep rack shelf, part #60-190-10 (RSU 126) or 60-604-10 (RSB 126); or 1U, 3.5" deep VersaTools® rack shelf, part #60-190-20 (RSU 123) or 60-604-20 (RSB 123). Back-of-rack mountable with optional VersaTools Back of the Rack Mount Kit, part #70-367-01 (MBB 100) Also furniture mountable with optional VersaTools Mini Under Desk Mounting Kit, #70-212-01 (MBU 123)
Enclosure type	Metal
Enclosure dimensions	1.75" H x 8.75" W x 3.0" D (1U high, half rack wide) 4.4 cm H x 22.2 cm W x 7.6 cm D (Depth excludes connectors.)
Product weight	0.6 lbs (0.3 kg)
Shipping weight	2 lbs (1 kg)
Vibration	ISTA 1A in carton (International Safe Transit Association)
Listings	UL, CUL
Compliances	CE, FCC Class A, VCCI, AS/NZS, ICES
MTBF	30,000 hours
Warranty	3 years parts and labor

NOTE: All nominal levels are at ±10%. Specifications are subject to change without notice.



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